

Humanizing Healthcare Through Harm Reduction

Addiction Medicine Day 2023 Maggie Shang, MD



Funding & Disclosures

Disclosures:

None

Funding:

- TREETOP Branch Pilot
- Magee CARES Award

Acknowledgements:

Our patients & other individuals who have shared and taught us through their experiences

Harm reduction activists who have paved the way for our work today

Prevention Point Pittsburgh



Learning Objectives

By completion of this session, participants should be able to:



Define and summarize the principles of harm reduction



Discuss the importance and impact of harm reduction practices at patient and populationlevel outcomes



Describe safer use best practices for different routes of administration



Explain practical implementation strategies in integrating harm reduction in the clinical setting

ARM RED

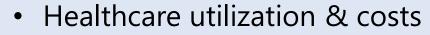


Content Outline

Framing the Issue **Defining Harm Reduction** The Movement The Evidence Safer Use Best Practices Shifting the Paradigm Next Steps

ARM RE

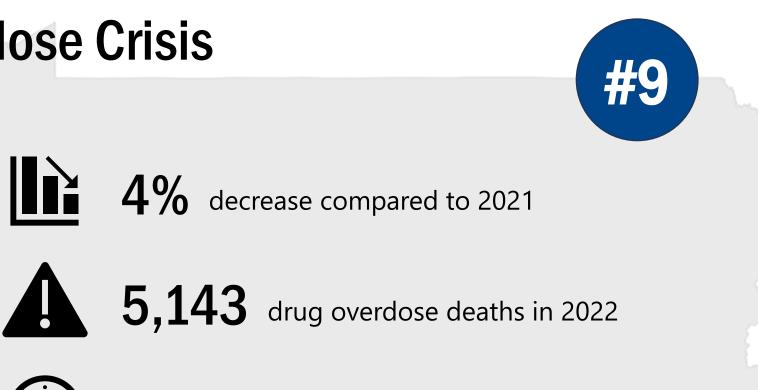
The Public Health Crisis



- Hepatitis C cases (majority due to IV drug use)
- HIV outbreaks
- Infective endocarditis
- Skin and soft tissue infections
- Overdose deaths



The Overdose Crisis





4

One Pennsylvanian died every **2 hours**

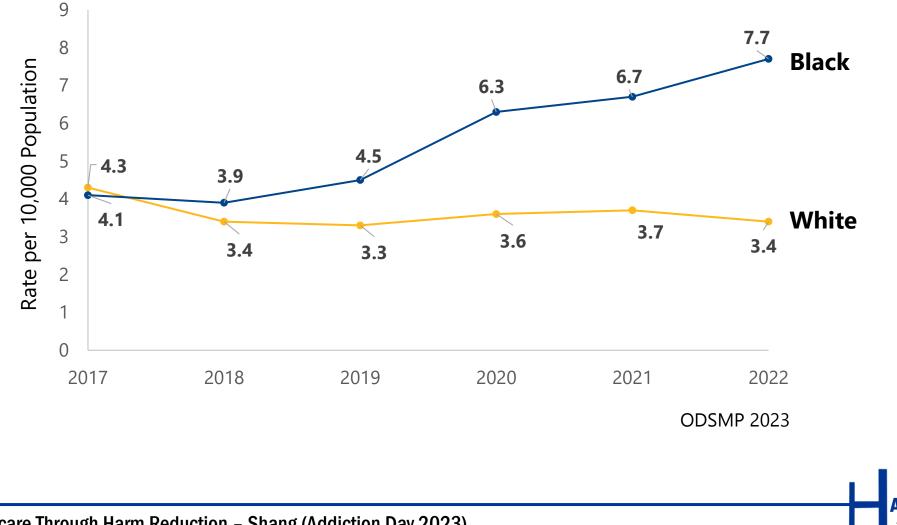


Humanizing Healthcare Through Harm Reduction – Shang (Addiction Day 2023)

ODSMP 2023

ARM R

The Overdose Crisis



ARM REDUCTION Research Collaborative

Content Outline

Framing the Issue **Defining Harm Reduction** The Movement The Evidence Safer Use Best Practices Shifting the Paradigm Next Steps



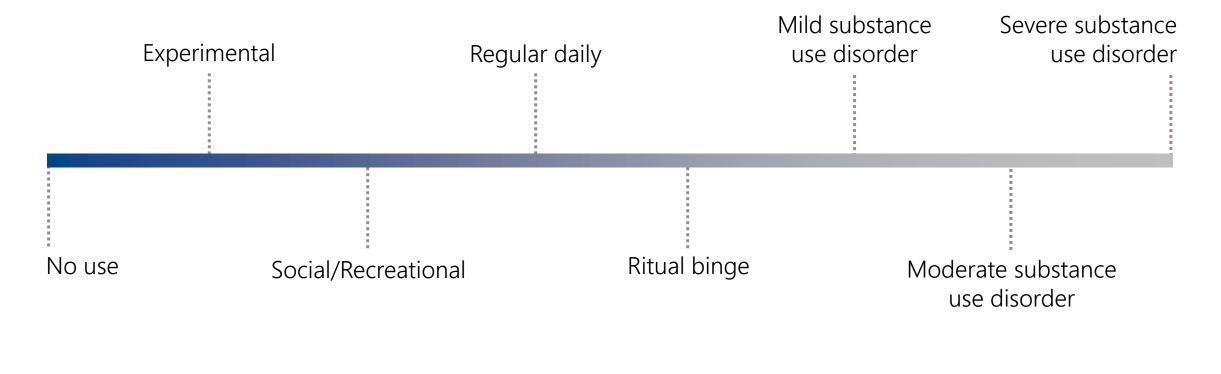
What is Harm Reduction?







The Substance Use & Harm Reduction Continuum



ARM R



Harm Reduction Principles



National Harm Reduction Coalition

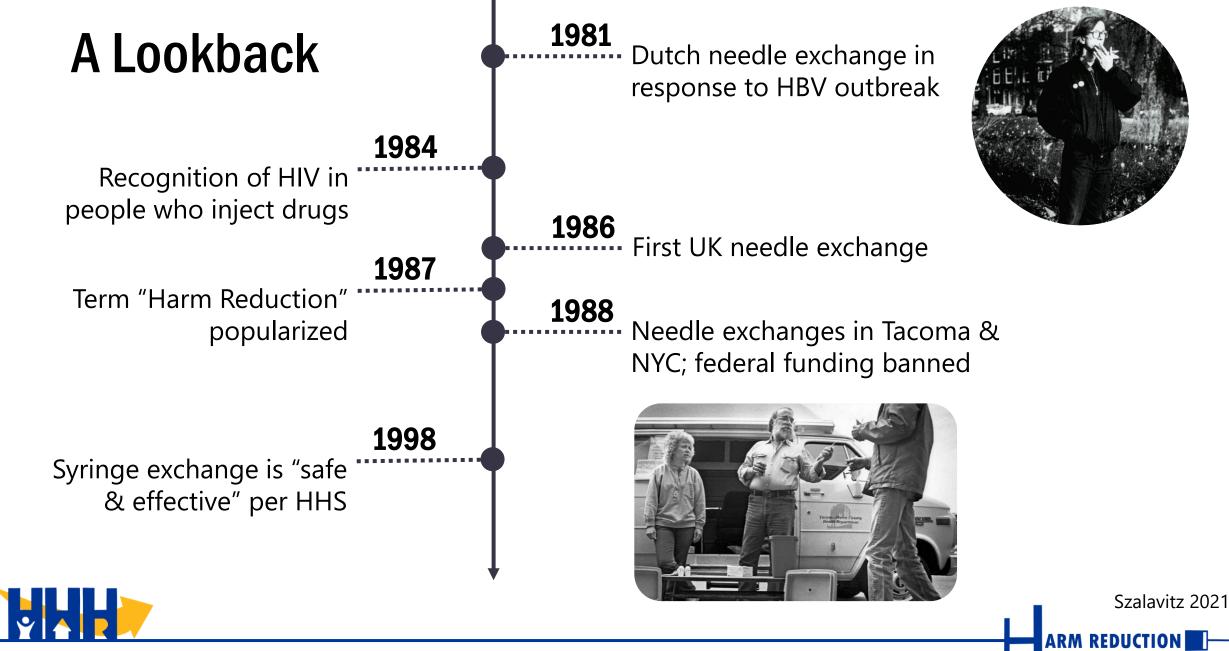
Undoing Drugs

The Untold Story of Harm Reduction and the Future of Addiction

Maia Szalavitz Author of New York Times Bestseller Unbroken Brain



Framing the Issue **Defining Harm Reduction** The Movement The Evidence Safer Use Best Practices Shifting the Paradigm Next Steps





Syringe exchange is "safe" & effective" per HHS



<u> The New York Times</u>

Uproar Over 'Crack Pipes' Puts Biden Drug Strategy at Risk

2021 American Rescue Act allocates \$30 million for harm reduction



ARM REI

Resistance in the US

Moral condemnation of substance use

Stigmatization of racial/ethnic minority groups

U.S. Drug Policy

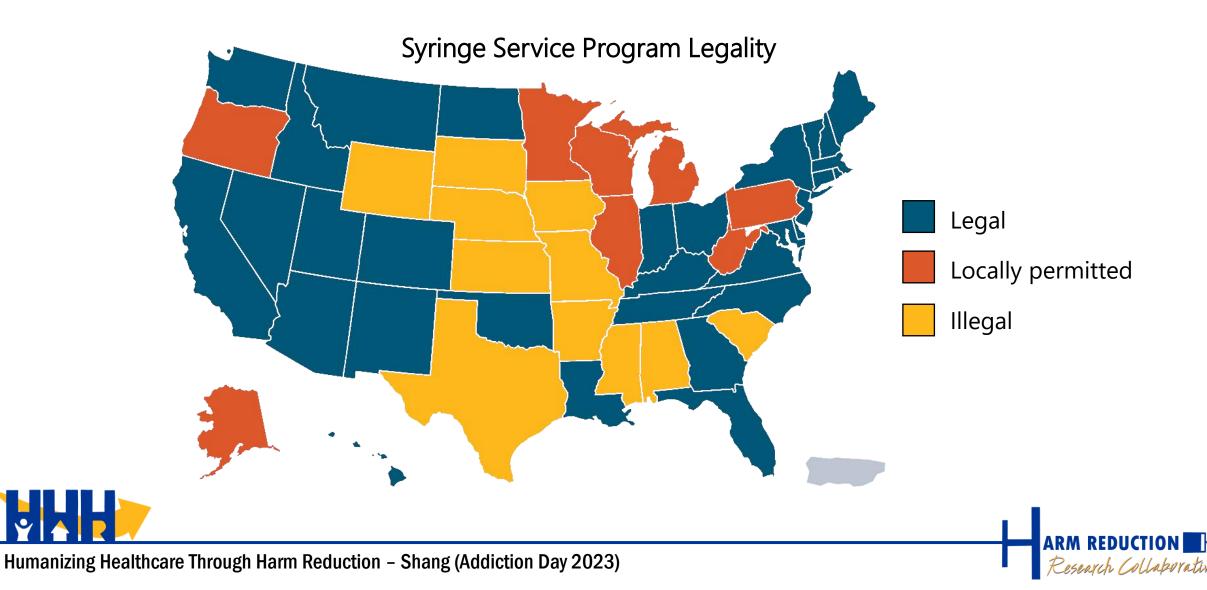
"War on Drugs" Ideology

- Generation of fear & anger around drug use
- Criminalization over treatment & disparate policing
- Abstinence-focused care



amfAR 2021

Where are we today?



ARM RED

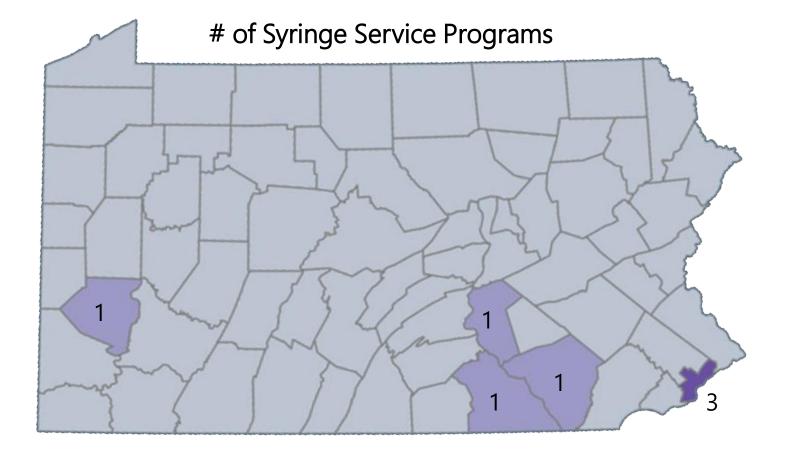
In Pennsylvania

Prevention Point Pittsburgh

- Established 1995 by James Crow and Caroline Acker
- Went underground 1998
- County-authorized in April 2002
- Served >5000 individuals
- Now 5 operation sites

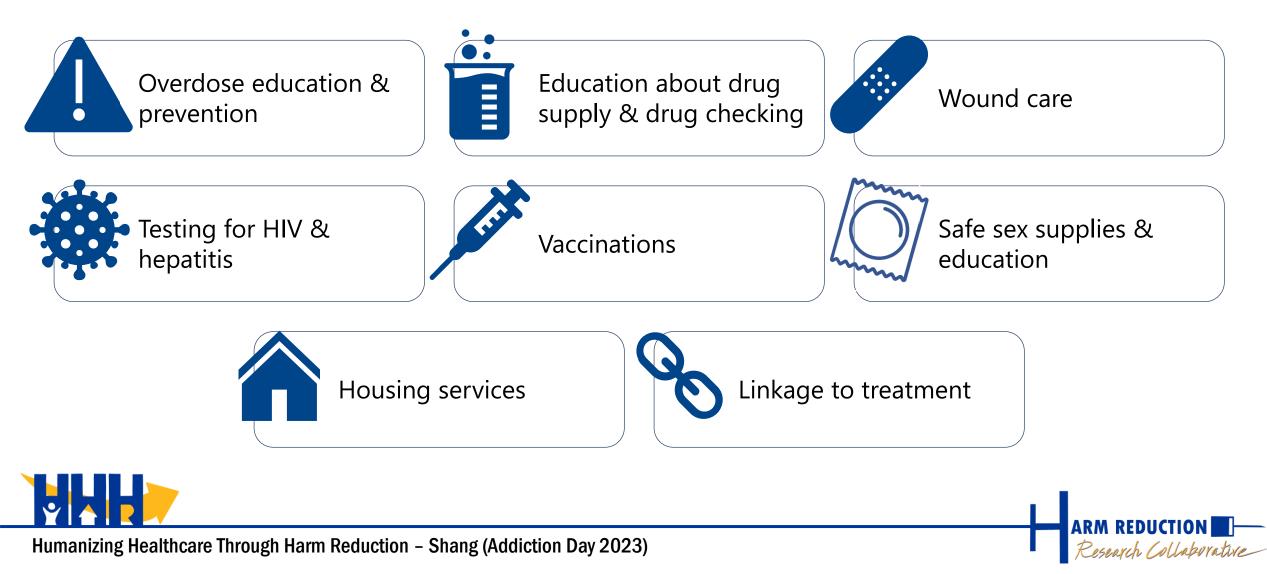
Allegheny County

- Article II passed 2007
- Recent revisions awaiting County Executive approval



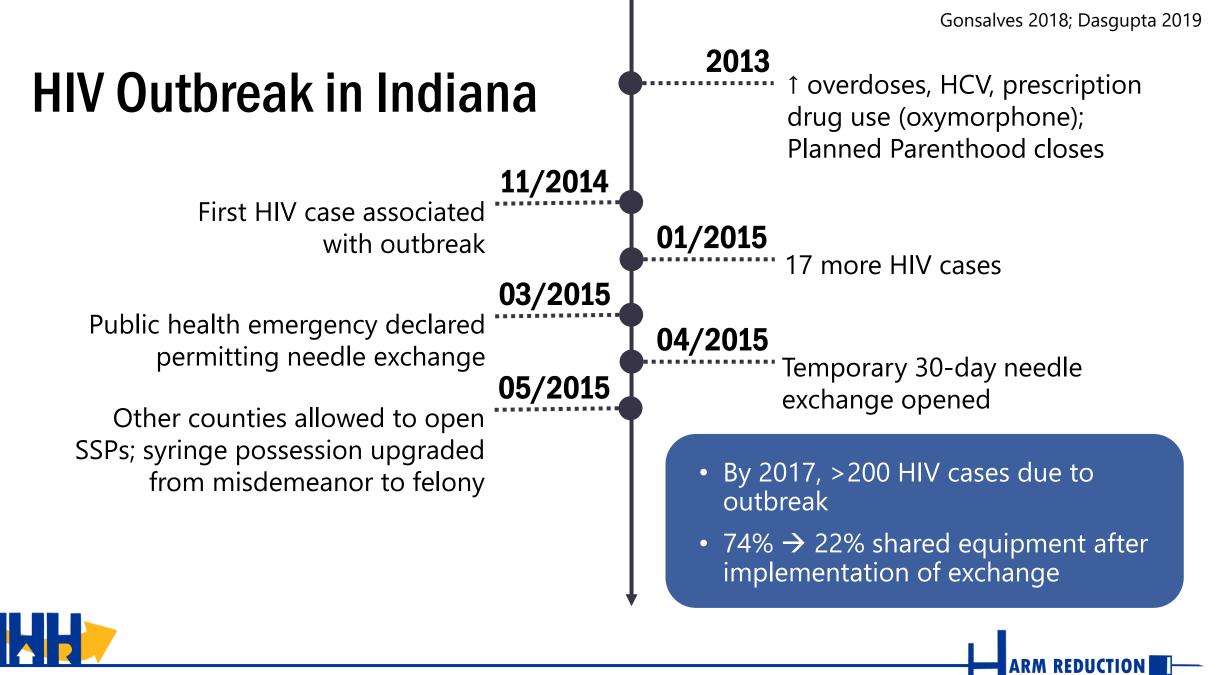


Beyond Needles: The Syringe Service Program



Content Outline

Framing the Issue **Defining Harm Reduction** The Movement The Evidence Safer Use Best Practices Shifting the Paradigm Next Steps



Save Lives, Save Money

>\$20 billion in federal funds for HIV care & treatment

<56 HIV cases if SSP implemented Jan 2013
<10 if SSP implemented Apr 2011</p>

SSP operation: \$0.4 to 1.9 million/year Lifetime cost saved by preventing 1 HIV infection: \$229,800/person





Harm reduction doesn't enable drug use.

Involvement in SSP...

Facilitates entry into

- Methadone and other SUD treatment
- Medical managed withdrawal
- On-site buprenorphine treatment

Associated with injection frequency decrease or discontinuation







Content Outline

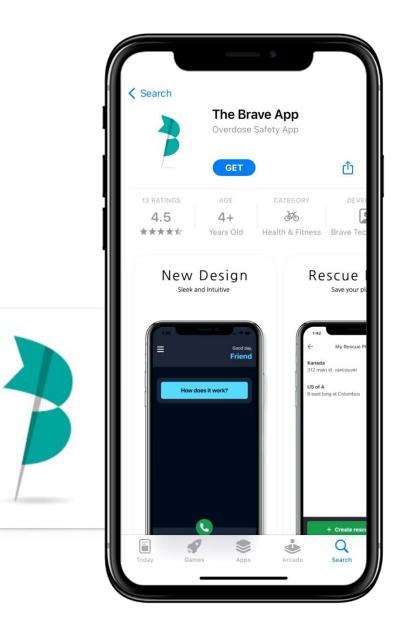
Framing the Issue **Defining Harm Reduction** The Movement The Evidence Safer Use Best Practices Shifting the Paradigm Next Steps

A dead person can't two-step, let alone twelve-step.

Hove Quechage

Overdose Prevention

- "Never use alone"
 - Have someone check in
 - Hotline (1-800-484-3731)
 - The Brave App
- Test shots "start low and go slow"
- Avoid mixing substances
- Have naloxone nearby
- Drug checking







Naloxone (Narcan[®])

- Make sure people nearby & caregivers can use it
- Goal is to restore breathing, not alertness
- Now over-the-counter (\$45)
- Also accessible via:
 - NEXT Distro
 - Syringe service program



Naloxone (Narcan[®])

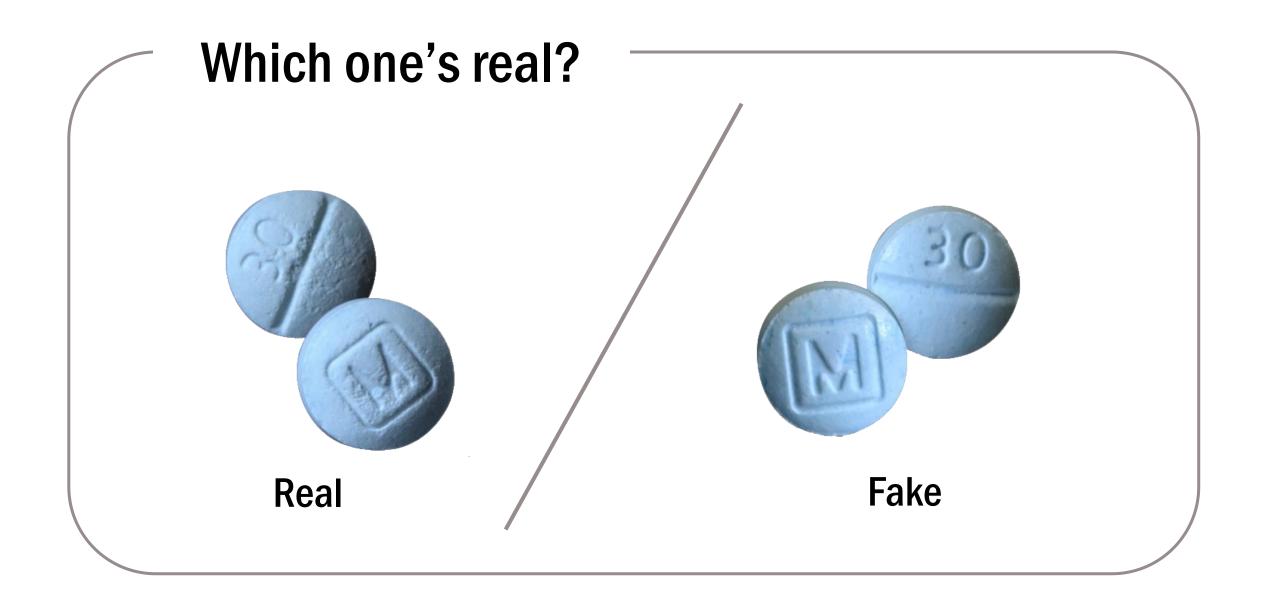










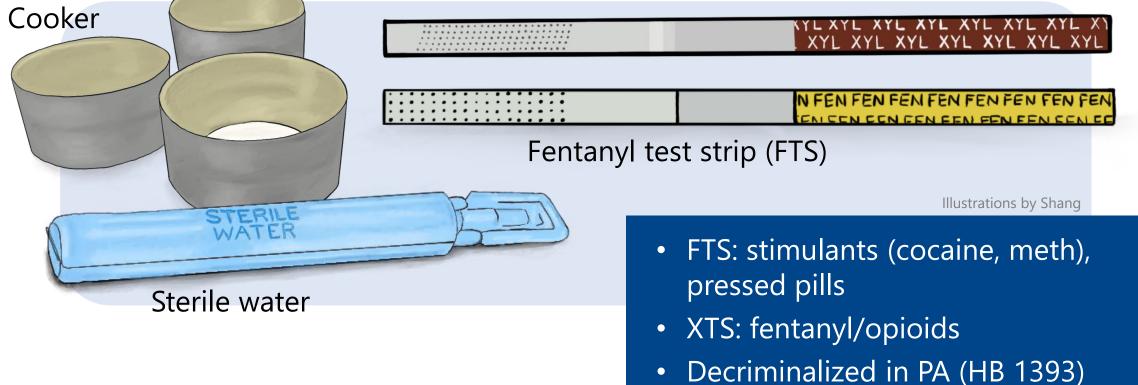


ARM RED

Research Cold

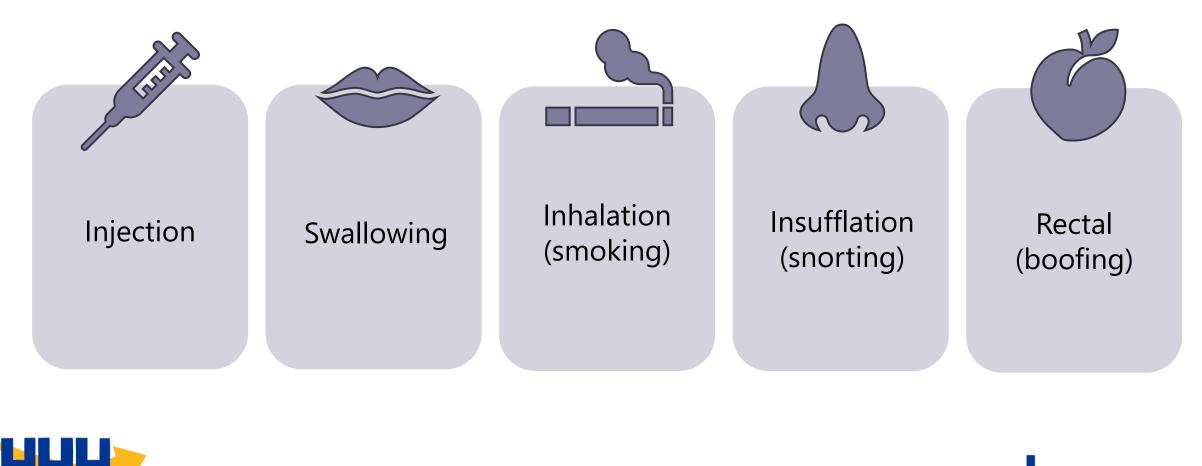
Drug Checking

Xylazine test strip (XTS)





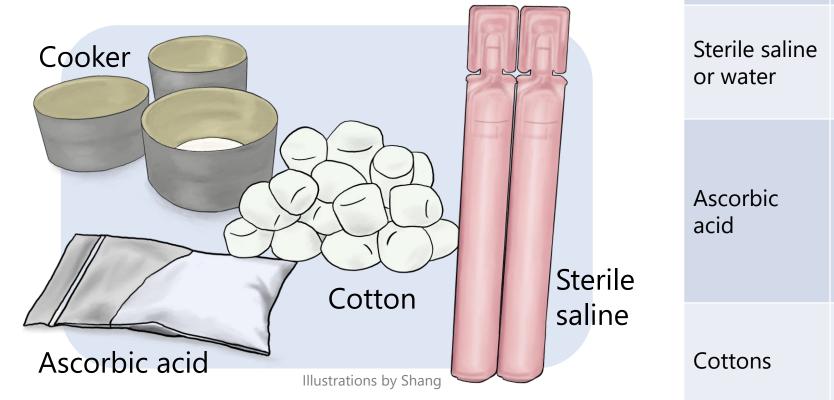
Routes of Administration



Humanizing Healthcare Through Harm Reduction – Shang (Addiction Day 2023)

ARM REDUCTION

Safer Injection: Prep



Supply	Use
Cooker	 Prepare drug Single use
Sterile saline or water	 Dissolve drug Avoid use of boiled, bottled, tap water
Ascorbic acid	 Helps dissolve certain drugs (crack cocaine) Prevents use of vinegar or lemon juice, which damages veins & ↑ risk of fungal infections
Cottons	 Filters undissolved solid particles Single use; avoid q-tips

ARM REDU

Research Colla

Safer Injection: Injecting

Common Syringe Sizes

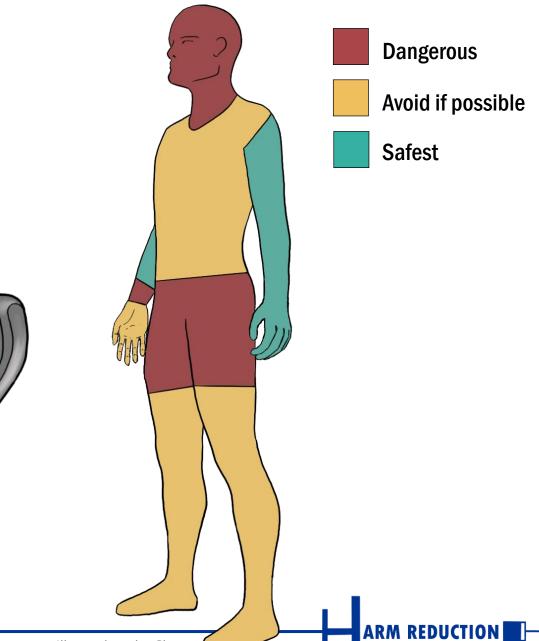
	Names*	Gauge	Needle Length	Syringe Size		
	Blues	25	5/8″			
	Pogos	27	5/8″			
	Halves	28	1/2″	0.5 – 1 cc	сс	
	Ultrafines	29	1/2″			
	Beestings	31	5/16″			
*Names used at PPP						
Ŷ				Illustration	ns by Shang	
Humania	zing Healthcare Thro	ugh Harm Red	duction – Shang (Addiction	Day 2023)	4	

- Avoid reusing or sharing
 Usually the smaller the needle, the better
- Obtain needles:
 - SSP
 - Purchase online
 - Buy at pharmacy
 - Provider prescription

ARM

Safer Injection: Injecting

- Rotate sites
- Avoid using certain areas
- Use veins only
- Use a tourniquet
- Vein finders -



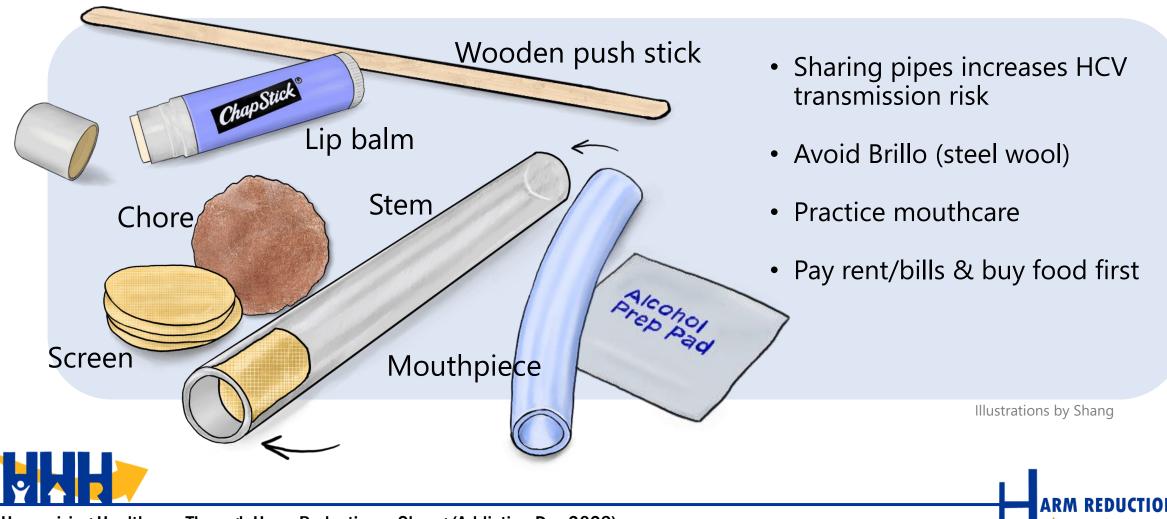
Safer Injection: Disposal

- Sharps disposal or strong plastic container
- Community drop off center or syringe service program

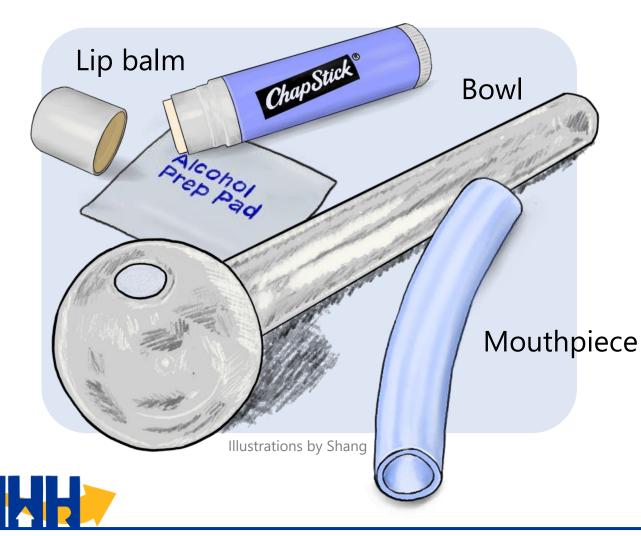




Safer Smoking: Crack Cocaine



Safer Smoking: Meth



A Case for Safer Smoking Supplies: "Route-transitioning"

Survey of SSP clients before and after heroin pipe distribution

- 43% (86/201) → 32% (80/251), p=0.02 exclusively injected heroin
- 34% (37/110) of those using distributed heroin pipe reduced injection frequency

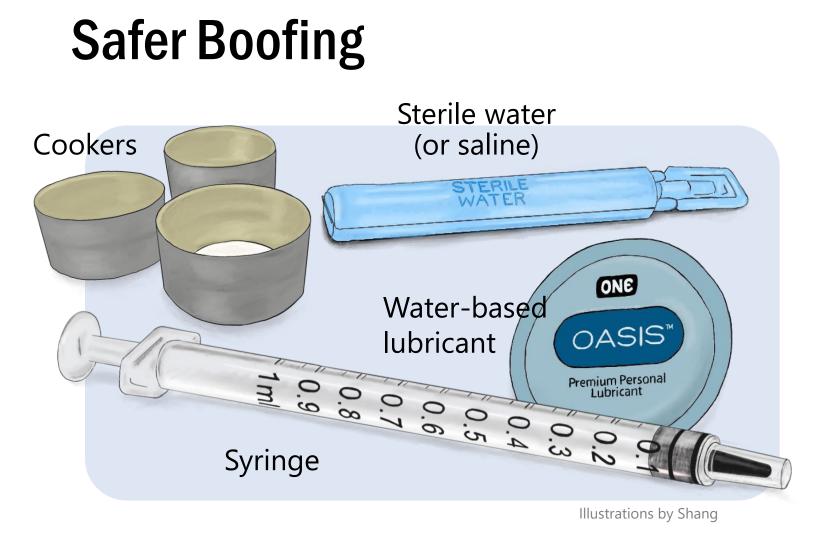
Survey of PWID

- Access to free safer smoking supplies reduced injection frequency by 12-44%
- 28-49% interested in access to supplies with majority reporting that access would reduce injection frequency

Safer Snorting

Supply	Use	
Straws	 Mark/use own to avoid HCV transmission Avoid using dollar bill 	
Scoop	Use instead of key	
Plastic razor	Crush drugs into finer powder which decreases damage to nasal mucosa	
Flat surface	Crush & use drugs fromUse instead of credit card	Prep
	Alternate nostrils Aftercare with saline spray or r	inse nose

Straws Scoop Plastic razor ohol Pad Flat surface Illustrations by Shang ARM REDUCI Research Collaporative



AKA "booty bumping"

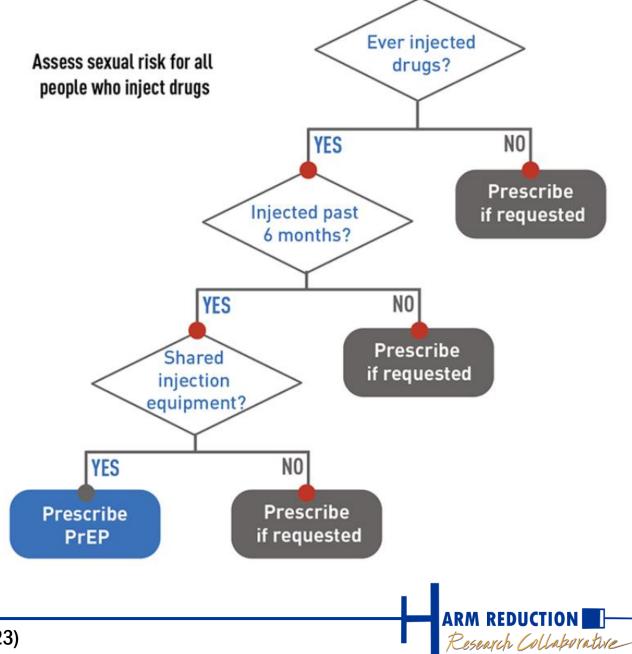
- Faster/stronger high than smoking or swallowing
- Gives other body parts a break
- Consider boofing if can't get a vein

ARM RE



Other Considerations

- HIV and hepatitis testing
- Hepatitis C and HIV treatment
- Immunizations (hepatitis, tetanus, etc)
- PEP or PrEP
 - PrEP indications: HIV-positive injecting partner OR sharing injection equipment





Content Outline

Framing the Issue **Defining Harm Reduction** The Movement The Evidence Safer Use Best Practices Shifting the Paradigm Next Steps



Shifting the Paradigm



Goals & Objectives

Change clinic culture to embrace patient-centered approach grounded in harm reduction principles

Staff & Providers

- Increase comfort with safer use best practices
- Systematically offer harm reduction services
- Reduce healthcare-related stigma

Patients

- Increase engagement in care
- Increase access to harm reduction services
- Improve long-term clinical outcomes





Harm Reduction Kits at IM-REP

- Pilot started February 2023
- Distributed the following safer use kits:
 - Fentanyl test strips
 - Safer boofing kits
 - Safer injection kits (no syringes)
 - Safer smoking kits (no pipes)
 - Safer snorting kits
 - Wound care kits
- Kits paired with patient-facing educational material



Content Outline

Framing the Issue **Defining Harm Reduction** The Movement The Evidence Safer Use Best Practices Shifting the Paradigm Next Steps

What can you do?

- Get free FTS/XTS and naloxone
 - Allegheny County Health Department
 - PA Overdose Prevention Program (POPP) through PCCD/DDAP
- Prescribe naloxone
 - Make sure people know how to use it
- Carry naloxone
- Prescribe needles and PrEP/PEP
- Test for HIV/hepatitis, immunize, and refer to treatment
- Refer to Prevention Point Pittsburgh
- Advocate for drug policy change



- Talk to your patients about it
- Avoid making assumptions
- Shift from competence to humility

Harm Reduction at Multiple Levels

LOCAL LEVEL

- IM-REP & other COEs championing efforts
- Article II revisions (pending County Executive approval)
 - Regulation providing oversight to SSPs in Allegheny County
 - Expands SSP accessibility/capacity



- Fentanyl test strips decriminalized (HB 1393)
- Senate Bill 926 and House Bill 2264
 - Would legalize SSPs across PA
 - Both referred to respective judiciary committees

FEDERAL LEVEL

- Biden-Harris' National Drug Control Strategy 2022
 - Drug policy priorities include enhancing evidence-based harm reduction efforts
 - Naloxone, drug testing strips, & SSPs



Interested in becoming a harm reduction champion?

Contact us: NATIONAL shangm2@upmc.edu jawar@upmc.edu **HARM REDUCTION** COALITION **NEXT Distro** STAY ALIVE, STAY SAFE. PENNSYLVANIA HARM REDUCTION NETWORK

ARM RED

Research Col

References

- 1. Chatterjee A, Bannister M, Hill LG, Davis CS. Prescribing Syringes to People Who Inject Drugs: Advancing Harm Reduction in Primary Care. J Gen Intern Med. Apr 5 2023;doi:10.1007/s11606-023-08183-7
- 2. Hawk M, Coulter RWS, Egan JE, et al. Harm reduction principles for healthcare settings. Harm Reduct J. Oct 24 2017;14(1):70. doi:10.1186/s12954-017-0196-4
- 3. Peckham AM, Young EH. Opportunities to Offer Harm Reduction to People who Inject Drugs During Infectious Disease Encounters: Narrative Review. Open Forum Infect Dis. Nov 2020;7(11):ofaa503. doi:10.1093/ofid/ofaa503
- 4. Simon R, Snow R, Wakeman S. Understanding why patients with substance use disorders leave the hospital against medical advice: A qualitative study. Subst Abus. 2020;41(4):519-525. doi:10.1080/08897077.2019.1671942
- 5. CATIE. Steps to safer injection [Video]. YouTube. https://www.youtube.com/watch?v=N7HjCPz4A7Y&ab_channel=CATIE. Published March 29, 2022. Accessed November 22, 2022.
- 6. CATIE. Steps to safer injection [Video]. YouTube. https://www.youtube.com/watch?v=IBIS2e46CV0&ab_channel=CATIE. Published March 29, 2022. Accessed November 22, 2022.
- 7. Centers for Disease Control and Prevention: US Public Health Service: Preexposure prophylaxis for the prevention of HIV infection in the United States—2021 Update: a clinical practice guideline. https://www.cdc.gov/hiv/pdf/risk/prep/cdc-hiv-prep-guidelines-2021.pdf. Published XXX 2021.
- Dasgupta, S., Broz, D., Tanner, M., Patel, M., Halleck, B., Peters, P. J., Weidle, P. J., O'Donnell, J., Amlung, J., McAlister, C., Chapman, E., Bailey, A., Burnett, J., & Duwve, J. (2019). Changes in Reported Injection Behaviors Following the Public Health Response to an HIV Outbreak Among People Who Inject Drugs: Indiana, 2016. *AIDS and behavior*, 23(12), 3257–3266. <u>https://doi.org/10.1007/s10461-019-02600-x</u>
- 9. Deering KN, Kerr T, Tyndall MW, Montaner JS, Gibson K, Irons L, et al. A peer-led mobile outreach program and increased utilization of detoxification and residential drug treatment among female sex workers who use drugs in a Canadian setting. Drug Alcohol Depend. 2011;113(1):46–54.
- 10. Des Jarlais DC. Harm reduction in the USA: the research perspective and an archive to David Purchase. Harm Reduct J. 2017;14, 51. doi.org/10.1186/s12954-017-0178-6
- 11. Drug Overdose Surveillance Interactive Data Report. Public.tableau.com. https://public.tableau.com/app/profile/pennsylvania.pdmp/viz/PennsylvaniaODSMPDrugOverdoseSurveillanceInteractiveDataReport/Contents. Accessed November 19, 2022.
- 12. Fatal and Non-Fatal Drug Surveillance. Office of Drug Surveillance and Misuse Prevention. Updated November 2022. Accessed November 21, 2022. https://public.tableau.com/app/profile/pennsylvania.pdmp/viz/Pennsylvania.DDSMPDrugOverdoseSurveillanceInteractiveDataReport/Contents
- 13. Fitzpatrick T, McMahan VM, Frank ND, et al. Heroin pipe distribution to reduce high-risk drug consumption behaviors among people who use heroin: a pilot quasi-experimental study. Harm Reduct J. 2022;19(1):103. Published 2022 Sep 22. doi:10.1186/s12954-022-00685-7
- 14. Galea S, Ahern J, Fuller C, Freudenberg N, Vlahov D. Needle exchange programs and experience of violence in an inner city neighborhood. Journal of Acquired Immune Deficiency Syndromes. 2001; (28):282-288.
- 15. Gonsalves GS, Crawford FW. Dynamics of the HIV outbreak and response in Scott County, IN, USA, 2011-15: a modelling study. Lancet HIV. 2018;5(10):e569-e577. doi:10.1016/S2352-3018(18)30176-0
- 16. Hagan H, McGough JP, Thiede H, Hopkins S, Duchin J, Alexander ER. Reduced injection frequency and increased entry and retention in drug treatment associated with needle-exchange participation in Seattle drug injectors. J Subst Abus Treat. 2000;19(3):247–52.
- 17. Jakubowski, A., Fowler, S., & Fox, A. D. (2023). Three decades of research in substance use disorder treatment for syringe services program participants: a scoping review of the literature. Addiction science & clinical practice, 18(1), 40. https://doi.org/10.1186/s13722-023-00394-x
- 18. Marx MA, Crape B, Brookmeyer RS, Junge B, Latkin C, Vlahov D, Strathdee SA. Trends in crime and the introduction of a needle exchange program. American Journal of Public Health. 2000;90(12), 1933–1936.
- 19. Morrison M. Two decades of positive change: A brief history of the harm reduction coalition. Published November 18, 2013. Accessed November 26, 2022. https://www.comerfamilyfoundation.org/articles/two-decades-of-positive-change-a-brief-history-of-the-harm-reduction-coalition.
- 20. Needle gauge resource list. Minnesota Department of Health. https://www.health.state.mn.us/people/syringe/needleguage.pdf. Published November 7, 2019. Accessed November 23, 2022.
- 21. Pennsylvania Opioid Epidemic. amfAR. https://opioid.amfar.org/PA. Updated 2022. Accessed November 26, 2022.
- 22. Pennsylvania State Policies. PA Harm Reduction Network https://www.pahrn.org/papolicies. Updated 2022. Accessed November 27, 2002.
- 23. Preexposure prophylaxis for the prevention of HIV infection in the United States: 2021 update. Center for Disease Control and Prevention. 2021. https://www.cdc.gov/hiv/pdf/risk/prep/cdc-hiv-prep-guidelines-2021.pdf. Accessed November 20, 2022.
- 24. Preston A, Derricott J. The safer injecting handbook. 9th edition. Exchange Supplies. https://www.exchangesupplies.org/pdf/P303_9.pdf
- 25. Rectal administration. NEXT Distro. https://nextdistro.org/resources-collection/rectal-administration-booty-bumping-boofing-plugging. Accessed November 24, 2022.
- 26. Reid MC, Oliphant-Wells T, Moreno C, et al. High levels of interest in access to free safer smoking equipment to reduce injection frequency among people who inject drugs in Seattle, Washington. Drug Alcohol Depend Rep. 2023;7:100163. Published 2023 May 2. doi:10.1016/j.dadr.2023.100163
- 27. Saitz R, Miller SC, Fiellin DA, Rosenthal RN. Recommended Use of Terminology in Addiction Medicine. J Addict Med. 2021;15(1):3-7. doi:10.1097/ADM.00000000000000073
- 29. Summary of information on the safety and effectiveness of syringe services programs. Center for Disease Control and Prevention. Last updated May 23, 2019. Accessed November 26, 2022. https://www.cdc.gov/ssp/syringe-services-programs-summary.html
- 30. Surratt HL, Otachi JK, Williams T, Gulley J, Lockard AS, Rains R. Motivation to change and treatment participation among syringe service program utilizers in rural Kentucky. J Rural Heal. 2020;36(2):224–33.
- 31. Szalavitz M. Undoing drugs: The untold story of harm reduction and the future of addiction. Hatchett Book Group; 2021.
- 32. Teshale EH, Asher A, Aslam MV, et al. Estimated cost of comprehensive syringe service program in the United States. PLoS One. 2019;14(4):e0216205. Published 2019 Apr 26. doi:10.1371/journal.pone.0216205
- 33. Tookes HE, Kral AH, Wenger LD, Cardenas GA, Martinez AN, Sherman RL, Pereyra M, Forrest DW, Laota M, Metsch LR. A comparison of syringe disposal practices among injection drug users in a city with versus a city without needle and syringe programs. Drug and Alcohol Dependence. 2012 ;123(1-3):255-9.

ARM REDUCTION -Research Collaborative

